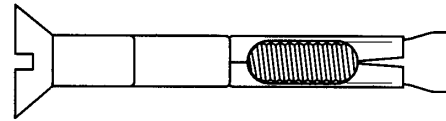


SLEEVE ANCHORS; FLAT HEAD



A x L Anchor Diam x Length	H Head Height	W Head Width	Drill Diameter	Fixture Clearance Hole	Minimum Embedment	S Thread Size of Stud	Required Torque to Set (Ft. Lbs.)		Tensile Strength (psi.)	Shear Strength (psi.)
	Ref	Ref				Carbon Steel	Stainless Steel	4000 psi. Concrete Strength		
1/4 x 2	5/32	1/2	1/4	5/16	1 1/8	10-24	4	3	1440	1630
1/4 x 3										
1/4 x 4										
3/8 x 2 3/4	15/64	3/4	3/8	7/16	1 5/8	5/16-18	16	11	2700	3250
3/8 x 4										
3/8 x 5										
3/8 x 6										

A x L Anchor Diam x Length	H Head Height	W Head Width	Drill Diameter	Fixture Clearance Hole	Minimum Embedment	S Thread Size of Stud	Required Torque to Set (Ft. Lbs.)		Tensile Strength (psi)	Shear Strength (psi.)
	Ref	Ref				Carbon Steel	4000 psi. Concrete Strength			
1/4 x 2	5/64	23/64	1/4	5/16	1 1/8	10-24	4		1440	1630

Description	A device for giving stability to one part of a structure by making it fast to another consisting of (A) a threaded stud with a conical end flared outward; (B) a hollow, cylindrical dilating sleeve assembled over the stud and positioned against the minor diameter of the cone; (C) a countersunk flat head at the end opposite the cone. The head height of the threshold flat head is less than a standard flat head sleeve anchor.	
Applications/ Advantages	The anchor works by expanding against the material in which it is embedded. When the flat head is turned clockwise the conical end is pulled into the dilating sleeve pushing it outward 360° around the anchor into the masonry. They are designed to be used in solid or hollow masonry, including cinder block, brick, marble and concrete. One advantage of the sleeve anchor is that it can be removed after it's been installed. Another is that the length of the sleeve induces less stress on the substrate than does a wedge anchor. The flat head variety is well-suited for anchoring windows and doorframes. The threshold flat head design is specifically for anchoring thresholds and is only available in steel.	
Material	<i>Steel</i> Threaded Bolt: AISI 1010 - 1018 steel Sleeve: AISI 1010 - 1020 steel	<i>Stainless</i> Threaded Bolt: 18-8 stainless steel Sleeve: Type 304 stainless steel
Anchor Spacing	Anchors should be installed with a minimum of 10 anchor diameters between each other and a minimum of 5 diameters	
Tensile Strength	The suggested safe working load is one-fourth of the average proof test load shown in the above table.	
Shear Strength	The suggested safe working load is one-fourth of the average proof test load shown in the above table.	
Plating	Steel sleeve anchors are usually supplied with zinc plating.	Stainless sleeve anchors usually have no additional finish.